

Low voltage municipal distribution systems with artificial neutrals. KILGORE, A. A. *Elektrichestvo* (No. 9) 45-54 (1947) In Russian.—A mathematical analysis of a circuit with a balancing transformer is made and currents and voltages in all parts of the circuit are calculated. Vector diagrams of systems with earthed and unearthed neutrals are given. Tables are drawn out for both cases, showing currents and voltages in a typical system with varying degrees of unbalance. Details are given of a typical Russian grade air-cooled balancer. The application of balancers to increase the capacity of networks already fully loaded is discussed. M. B.

USSR/Electricity
Power Transmission
Voltage Regulators

Dec 1947

PA 50714

"Regulation of the Feeder Voltage as Means of Lower-
ing the Energy Losses in City Power Circuits," A. A.
Kulikovskiy, Engr, 4 pp

"Elektricheskiye Stantsii" No 12

Has been noticed for long time that voltage even-
tually arriving at the point of use was much lower
than at the point of source. Some loss inevitable.
Author discusses system of transformers that can be
used to equalize the voltage and greatly cut down
energy losses in feeder lines. States that method
he suggests to be used only as supplement to already
existing means of decreasing energy losses.

IC

50714

KULIKOVSKIY, A.A.

KULIKOVSKIY, A. A."

"New Developments in Radio Reception Techniques", Gosenergoizdat, 120 pp, 1950.

KULIKOVSKIY, A. A.

178T57

USSR/Electricity - Distribution Systems Apr 51
Transformers

"Responses to N. P. Tikhonov's Article 'Grounding the Neutral Points of Transformer Windings in 380-V Networks' (Elektrichestvo, No 4, 1951)," I. A. Syromyatnikov, Cand Tech Sci, Tech Adm of Min Elec Power Sta, Engr A. A. Kulikovskiy, Moscow, L. P. Podolskiy, Cand Tech Sci, Moscow Planning-Const Adm of "Tsentruelektromontazh"

"Elektrichestvo" No 4, pp 74-76

Syromyatnikov agrees that Tikhonov has found a defect, but believes the remedy should be preventive high-voltage insulation tests rather

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USSR/Electricity - Distribution Systems Apr 51
(Contd)

than grounding of transformer neutrals. Other 2 writers agree with Tikhonov that "Rules for Grounding Electrical Equipment Carrying Voltages Up to 1,000 V" should be rewritten to make it easier to ground neutrals.

178T57

KHAYKIN, S.M.; KULIKOVSKIY, A.A., redaktor; LARIONOV, G.Ye., tekhnicheskiy redaktor

[Continuous oscillations] Nezatukhalushchie kolebania. Moskva,
Gos. energ. izd-vo, 1953. 125 p. (Massovaya radiobiblioteka, no.181)
[Microfilm] (MLRA 7:10)
(Oscillators, Electron-tube)

KULIKOVSKIY, A.A.

LEVITIN, Ye.A.; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZHZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; SPIZHEVSKIY, I.I., redaktor; FRIDKIN, A.M., tekhnicheskii redaktor.

[Superheterodyne] Supergeterodin. Moskva, Gos. energ. izd-vo, 1954.
11 p. (Massovaya radiobiblioteka, no. 200) [Microfilm] (MLBA 7:11)
(Radio--Receivers and reception)

OYFA, I.L.; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I. redaktor; MALININ, R.M., redaktor; FRIDKIN, A.M., tekhnicheskii redaktor.

[Intercom loud-speaker apparatus] Peregovornoe gromkogovoriashchee ustroistvo. Moskva, Gos. energ. izd-vo, 1954. 14 p. (Massovaya radiobiblioteka, no. 202) (MIRA 7:11)

KULIKOVSKIY, A.A.

STARIKOV, I.G.; SPIZHEVSKIY, I.I., redaktor; TARASOV, P.I., redaktor;
BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor;
KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TRAMM, B.F.,
redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; FRIDKIN,
A.M., tekhnicheskii redaktor.

[Television set with few tubes] Malolampovyi televizor. Pod red. L.I.
Spizhevskogo. Moskva, Gos. energ. izd-vo, 1954. 37 p. (Massovaya
radiobiblioteka, no.197) [Microfilm] (MLRA 7:12)
(Television)

NELEPETS, V.S.; BERG, A.I., redaktor; DZHIQIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZHZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; YAKOBSON, A.Kh., redaktor; FRIDKIN, A.M., tekhnicheskii redaktor

[Radio engineering in railroad transportation] Radiotekhnika na zheleznodorozhnom transporte. Moskva, Gos. energ. izd-vo, 1954.
43 p. (Massovaya radiobiblioteka, no. 196) [Microfilm] (MLRA 7:10)
(Radio) (Railroads--Electronic equipment)

KULIKOVSKIY A.A.
GOL'DREYER, I.G.; YAKOBSON, A.Kh., redaktor; BERG, A.I., redaktor; DZHI-
GIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., re-
daktor; MOZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TA-
RASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., re-
daktor; SHAMMUR, V.I., redaktor; VORONIN, K.P., tekhnicheskii re-
daktor.

[Feedback electronic cascades] Lampovyi kaskad s obratnoi svyaz'iu.
Moskva, Gos. energeticheskoe izd-vo, 1954. 86 p. (Massovaya radio-
biblioteka, no. 201) (MLRA 7:11)
(Amplifiers, Electron tube)

SUTYAGIN, V.Ya.; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZHZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; KRIVOSHEYEV, I.I., redaktor; FRIDKIN, A.M., tekhnicheskii redaktor.

[Circuits of television receiver scanning devices] Skhemy razvertyvayushchikh ustroystv televizionnykh priemnikov. Moskva, Gos. energ. izd-vo, 1954. 93 p. (Massovaya radiobiblioteka, no. 199) (MLRA 7:9)
(Television--Receivers and reception)

PLONSKIY, A.F.; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G.,
redaktor; KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor;
TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O.,
redaktor; SHASHMUR, V.I., redaktor; SENCHENKOV, A.F., redaktor;
SKVORTSOV, I.M., tekhnicheskij redaktor

[Quartz resonators] Kvartsevye rezonatory. Moskva, Gos. energ.
izd-vo, 1954. 94 p. [Microfilm] (MLRA 7:10)
(Electric resonators)

BYALIK, Gavriil Iosifovich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor;
YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZHZHEVELOV, B.N.,
redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM,
B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor;
KRIVOSHEYEV, M.I., redaktor; SKVORTSOV, I.M., tekhnicheskii redaktor

[The technique of television transmission] Tekhnika televizionnykh
peredach. Moskva, Gos. energ. izd-vo, 1954. 96 p. (Massovaya radio-
biblioteka, no.205) (MLRA 8:3)

(Television-Transmitters and transmission)

LEVITIN, Yefim Alekseyevich; KURARKIN, L.V., redaktor; BERG, A.I., redaktor;
DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., re-
daktor; MOZHZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARA-
SOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor;
SHAMSHUR, V.I., redaktor; VORONIN, K.P., tekhnicheskii redaktor.

[Electron tubes] Elektronnye lampy. Pod red. L.V.Kubarkina. Moskva,
Gos.energ. izd-vo, 1954. 101 p. (Massovaya radiobiblioteka, no.209)
[Microfilm] (MLRA 8:2)

(Electron tubes)

LOGINOV, V.N., Viktor Nikolayevich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZHZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; VAYNSHTEYN, S.S., redaktor; VORONIN, K.P., tekhnicheskiiy redaktor

[Radio measurements] Radiozmereniia. Moskva, Gos. energ. izd-vo, 1954. 119 p. (Massovaya radiobiblioteka, no.208) (MIRA 8:3)
(Radio measurements)

12-11-1954
PRESMAN, Aleksandr Samuilovich; BERO, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, I.O., redaktor; SHAMSHUR, V.I., redaktor; KONASHINSKIY, A.D., redaktor; LARIONOV, G.Ye., tekhnicheskii redaktor.

[Centimeter waves] Santimetrovye volny. Moskva, Gos. energ. izd-vo, 1954. 119 p. (Massovaya radiobiblioteka, no. 203) [Microfilm]
(Radio waves) (MLRA 7:11)

KULIKOVSKIY, A.A.

YEL'YASHKEVICH, Samuil Abramovich; BERG, A.I., redaktor; DZHIGIT, I.S.,
redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor;
MOZHYZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARASOV,
F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor;
SHAMSHUR, V.I., redaktor; NIKOLAYEVSKIY, I.F., redaktor;
SKVORTSOV, I.M., tekhnicheskii redaktor

[Eliminating defects from television receivers] Ustranenie neispravno-
stei v televizore, Moskva, Gos. energ. izd-vo, 1954. 151 p. (Masso-
vaia radiobiblioteka, no.211) (MLRA 8:3)
(Television--Repairing)

KULIKOVSKIY, A.A.; SUTYAGIN, V.Ya., redaktor; FRIDKIN, A.M., tekhnicheskii
~~redaktor~~

[New developments in amateur radio receivers] Novoe v tekhnike
liubitel'skogo radiopriema. 2-e izd., perer. Moskva, Gos. energeti-
cheskoe izd-vo, 1954. 174 p. (Massovaya radiobiblioteka, no.207)
[Microfilm] (MIRA 8:3)
(Radio-Receivers and reception)

SHAMSHUR, Vladimir Ivanovich; KULIKOVSKIY, A.A., redaktor; FRIDKIN, A.M.,
tekhnicheskiiy redaktor.

[First years of Soviet radio engineering and amateur radio work]
Pervye gody sovetskoi radiotekhniki i radioliubitel'stva. Moskva,
Gos. energ. izd-vo, 1954. 247 p. (Massovaya radiobiblioteka, no.213)
[Microfilm] (MIRA 8:1)
(Radio)

STEPANOV, Sergey; KORNDORF, S.F., redaktor; BERG, A.I., redaktor; DZHIGIT, I.S.,
redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOSEZHEVELOV,
B.N., redaktor SMIRNOV, A.D., redaktor; YACASOV, I.I., redaktor; TRAMN,
B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, B.I., redaktor;
VORONIN, K.P., tekhnicheskiy redaktor

[Calculations for measuring instruments] Raschet izmeritel'nykh priborov.
Moskva, Gos. energeticheskoe izd-vo, 1955. 30 p. (Massovaya radiobiblio-
teka, no.215) [Microfilm] (MLRA 8:2)
(Measuring instruments)

GOL'DREYER, Iona Gutelevich; ROGINSKIY, Vladimir Yur'yevich; BERG, A.I.,
redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOV-
SKIY, A.A., redaktor; MOZHZHEVELOV, B.N., redaktor; SMIRNOV, A.D.,
redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK,
P.O., redaktor; SHAMSHUR, V.I., redaktor; LEVITIN, Ye.A., redaktor;
VORONIN, K.P., tekhnicheskii redaktor

[Self-righting amplifier systems] Samovypriamlyayushchie usilitel'-
nye skhemy. Moskva, Gos.energ.izd-vo, 1955. 46 p. (MIRA 9:3)
(Amplifiers, Electron-tube)

KULIKOVSKIY, A. A.

ROGINSKIY, Vladimir Yur'yevich; FEYSEL'S, Viktor Zinov'yevich; BERG, A.I.,
redaktor; DZHIGIT, I.S., redaktor; YMLIN, O.G., redaktor; KULIKOVSKIY,
A.A., redaktor; MOZHZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor;
TAKASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor;
SHAMSHUR, V.I., redaktor; KUBARKIN, L.V., redaktor; LARIONOV, G.Ye.,
tekhnicheskij redaktor

[From microphone to loudspeaker] Ot mikroфона do gromkogovoritel'ia.
Moskva, Gos. energ. izd-vo, 1955. 63 p. (Massovaya radiobiblioteka,
no.233)

(MLRA 9:2)

(Radio)

LEVITIN, Yefim Alekseyevich; KONASHINSKIY, D.A., redaktor; BERG, A.I.,
redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor;
KULIKOVSKIY, A.A., redaktor; MOZHZHEVELOV, B.N., redaktor;
SHIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F.,
redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor.
VORONIN, K.P., tekhnicheskii redaktor.

[Tuning of radio receivers] Nalashivanie priemnikov. 2-e izd.,
perer. Moskva, Gos. energ. izd-vo, 1955. 87 p. (Massovaya
radiobiblioteka, no. 225) (MIRA 9:2)
(Radio -- Receivers and reception)

FEDOTOV, Yakov Andreyevich; KULIKOVSKIY, A.A., redaktor; BERG, A.I.,
redaktor; DZHIGIT I.S., redaktor; YELIN, O.G., redaktor; MOZH-
ZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I.,
redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor;
SHASHMUR, V.I., redaktor.; LARIONOV, G.Ye., tekhnicheskii redaktor

[Crystal triodes] Kristallicheskie triody. Moskva, Gos.energ.
izd-vo, 1955. 94 p. (Massovaya radiobiblioteka no.216)
(Electron tubes) (MLRA 8:9)

KULIKOVSKIY, A.A.

CHECHIK, Nikolay Oskarovich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor;
YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZHZHEVELOV, B.N.
redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM B.F.
redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; ZHIGAREV,
A.A., redaktor; VORONIN, K.P., tekhnicheskiy redaktor.

[Photoelectric cells and their use] Fotoelementy i ikh primeneniye
Moskva, Gos.energ.izd-vo, 1955. 111 p. (Massovaya radiobiblioteka
no.228) (MLRA 8:11)
(Photoelectric cells)

SHADOV, R.; CHECHIK, P.O. [translator]; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZH-ZHEVELOV, B.N., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; SHAMSHUR, V.I., redaktor; LEVITIN, Ye.A., redaktor; VORONIN, K.P., tekhnicheskiy redaktor

[Testing apparatus for repairing radio receivers. Translated from the German] Ispytatel'naya apparatura dlia remonta priemnikov. Perer.perevod s nemetskogo P.O.Chechika. Moskva, Gos.energ.izd-vo 1955. 125 p. (Massovaya radiobiblioteka, no.232) (MLRA 9:3)
(Radio--Receivers and reception)

KULIKOVSKIY, N. A.

SOMINSKIY, Monus Samuilovich; BROYDE, A.M., redaktor; BERG, A.I., redaktor;
DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A.,
redaktor; MOZHZHEVELOV, B.N., redaktor; SMIRNO, K.D., redaktor; TA-
RASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor;
SHAMSHUR, V.I., redaktor; LARIONOV, G.E., tekhnicheskii redaktor

[Semiconductors and their use] Poluprovodniki i ikh primeneniye..
Moskva, Gos.energ. izd-vo, 1955. 127 p. (Massovaya radiobiblioteka,
no.236) (MLRA 9:2)

(Semiconductors)

KULIKOVSKIY, A.N.

HAZEN', Klimentiy Borisovich; BROYDE, A.M., redaktor; BERG, A.I.,
redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULI-
KOVSKIY, A.A., redaktor; MOZHZHNEVLOV, B.N., redaktor;
SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F.,
redaktor; CHECKIK, P.O., redaktor; SHAMSHUR, V.I., redaktor;
SKVORTSOV, I.M., tekhnicheskij redaktor

[Voltage and current stabilizers] Stabilizatory napriazheniya i
toka. Moskva, Gos.energ.izd-vo, 1955. 133 p. (Massovaya radio-
biblioteka, no.218) (MLRA 8:9)

(Voltage regulators)

KULIKOVSKIY, A.A.

ROZENBLATT, Moisey Aronovich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor; MOZHZHEVELOV, B.N., redaktor; SMIRTOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; SENCHEKOV, A.F., redaktor; VORONIN, K.P., tekhnicheskii redaktor.

[Magnetic amplifiers] Magnitnye usiliteli. Moskva, Gos.energ. izd-vo, 1955. 135 p. (Massovaya radiobiblioteka, no.230)
(Magnetic amplifiers) (MLRA 8:11)

VOLIN, M.L.; ~~KULIKOVSKIY, A.A.~~, redaktor; SKVORTSOV, I.M., tekhnicheskiy
redaktor.

[Intermediate-frequency amplifiers] Usiliteli promezhutochnoi
chastoty. Izd. 2-e, perer. Moskva, Gos.energ.izd-vo, 1955.
177 p. (Amplifiers, Electron-tube) (MLRA 8:3)

KULIKOVSKIY, A.A.; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor;
YELIN, O.G., redaktor; MOSHZHEVELOV, G.H., redaktor; SMIRNOV,
A.D., redaktor; TARASOV, A.D., redaktor; TRAMM, B.F., redaktor.
CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; ZHUKHOVIT-
SKIY, B. Ya., redaktor; FRIDKIN, A.M., tekhnicheskii redaktor

[Manual for the amateur radio operator] Spravochnik radioliubi-
telia. Moskva, Gos.energ.izd-vo, 1955. 256 p. (Massovaya radio-
biblioteka, no.222) (MLRA 8:9)
(Radio-Amateur's manuals)

BORISOV, Viktor Gavrilovich; BERG, A.I.; DZHIGIT, I.S.; VKLIN, O.G.,
KULIKOVSKIY, A.A.; MOZHZHEVELOV, B.N.; SMIRNOV, A.D.; TARASOV,
P.I.; ~~TRAM, B.T.~~; CHECHIK, P.O.; SHAMSHUR, V.I.; MALININ, R.M.
redaktor; VORONIN, K.P., tekhnicheskiy redaktor

[Young radio amateur] Iunyi radioliubitel'. Izd. 2-oe, ispr. 1
dop. Moskva, Gos.energ.izd-vo 1955. 271 p. (Massovaya radio-
biblioteka, no.224) (MLRA 8:11)
(Radio--Amateurs' manuals)

KULIKOVSKIY, A. A.
Pub. 50-377

FD-2495

: Kulikovskiy, A. A., Active Member, VNIIE

: Establishment processes during detection of pulse signals

: Radiotekhnika, 10, 21-28, Jun 55

: Method of calculating the steady-state pulse-signal voltage on the load of a detector, with the aid of Arhamel's integral, for the condition of a slowly changing dc component, are presented in this article. A convenient integration method is offered for determination of the dc component of the detector current for a linear segmental approximation of the detector current characteristic. With the aid of this method simple expressions are found for the steady-state voltages at the plate, diode and cathode of detectors in the detection of pulses with rectangular envelopes. Application of the derived formulas for establishment of the conditions for detection of pulses having envelopes of other forms are explained. Five references: all USSR.

Institution : All-Union Scientific and Technical Society of Radio (VNIIE) Engineering and Electric Communications (Invent A. Popov)

Submitted : November 16, 1954

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927430002-4

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927430002-4"

RIZKIN, Yefim Aarevich; BERG, A.I.; redaktor; DZHGIT, I.S., redaktor;
KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I.,
redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR,
V.I., redaktor; KONASHINSKIY, D.A., redaktor; VORONIN, K.P., tekhnicheskii redaktor.

[How to build a collective farm broadcasting studio] Kak postroit' kolkhoznuiu rechevuiu studiiu. Moskva, Gos.energ. izd-vo, 1956. 14 p.
(Massovaya radiobiblioteka, no.239). (MLRA 9:6)
(Radio stations) (Radio in agriculture)

BARSUKOV, Filipp Ivanovich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor;
KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I.,
redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR,
V.I., redaktor; TARASOV, F.I., redaktor; LARIONOV, G.Ye., tekhnicheskiy redaktor.

[Three-tube radio receiver] Trekhlampovyi radiopriemnik. Moskva,
Gos. energ. izd-vo, 1956. 15 p. (Massovaya radiobiblioteka no.238)
(Radio--Receivers and reception) (MLRA 9:6)

Radio--Apparatus and supplies
CHECHIK, Petr Oskarovich; BERG, A.I.,redaktor; DZHIGIT, I.S.,redaktor
KULIKOVSKIY, A.A.,redaktor; SMIRNOV, A.D.,redaktor TRAMM, B.F.,
redaktor; SHAMSHUR, V.I.,redaktor; TARASOV, P.I.,redaktor; VORONIN,
K.P.,tekhnicheskiiy redaktor

[New sources of current for radio apparatus] Novye istochniki pitaniia
radioapparatury. Moskva, Gos. energ. izd-vo, 1956. 39 p. (Massovaya
radiobiblioteka, no.257) (MLRA 10:5)
(Radio--Apparatus and supplies) (Electric batteries)

GONCHARSKIY, Lush Abramovich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor;
KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I.,
redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR,
V.I., redaktor; FROYMAN, A.I., redaktor; LARIONOV, G.Ye., tekhnicheskii
redaktor

[Electron tubes with mechanical controls] Elektronnaia lampa s
mekhanicheskim upravleniem. Moskva, Gos.energ. izd-vo 1956. 39 p.
(Massovaya radiobiblioteka, no.243) (MIRA 9:8)
(Electron tubes)

А.А. КУЛИКОВСКИЙ, А.А.

ZAGIK, Semen Yefimovich; KAPCHINSKIY, Lev, Mikhaylovich; BERG, A.I.,
redaktor; DZHIGIT, I.S., redaktor; ~~KULIKOVSKIY, A.A., redaktor;~~
SMIRNOV, A.D., redaktor; TARASOV, P.I., redaktor; TRAMM, B.P., redaktor;
CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; OVCHARENKO, Ye.
P., redaktor; VORONIN, K.P., tekhnicheskyy redaktor

[Television reception antennas] Priemnye televizionnye antennoy.
Moskva, Gos. energ. izd-vo, 1956. 47 p. (MLRA 10:4)
(Television--Antennas)

MIKHLIN, Berka Zys'yevich; BERG, A.I.,redaktor; DZHIGIT, I.S.,redaktor;
KULIKOVSKIY, A.A.,redaktor; SMIRNOV, A.D.,redaktor; TARASOV, F.I.,
redaktor; TRAMM, B.F.,redaktor; CHECHIK, P.O.,redaktor;
SHAMSHUR, V.I.,redaktor; GINZBURG, Z.B.,redaktor; CHERNOV, V.S.,
tekhnicheskii redaktor

[Electronic instruments for production control] Radioelektronnye
pribory dlia proizvodstvennogo kontrolya. Moskva, Gos. energ.
izd-vo, 1956. 62 p. (Massovaya radiobiblioteka, no.258)
(Automatic control) (Electronic instruments)
(Production control)

Radio circuit primer

KUBARKIN, Leontiy Vladimirovich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor;
KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I.,
redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I.,
redaktor; GINZBURG, Z.B., redaktor; LARIONOV, G.Ye., tekhnicheskii redaktor

[Radio circuit primer] Azbuka radioskhem. Moskva, Gos. energ. izd-vo,
1956. 63 p. (Massovaya radiobiblioteka, no.259) (MLRA 10:5)
(Radio circuits)

SHUL'GIN, Konstantin Aleksandrovich; BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; MEL'NIKOVSKAYA, R.D., redaktor; SKVORTSOV, I.M., tekhnicheskii redaktor.

[How a radio receiver works] Kak rabotaet radiopriemnik. Moskva, Gos. energ. izd-vo, 1956. 78 p. (Massovaya radiobiblioteka, no.242)
(Radio--Receivers and reception)

BYALIK, Gavril Iosifovich; BERO, A.I., redaktor; DZHIGIT, I.S., redaktor;
KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I.,
redaktor; TRAMM, B.F., redaktor; CHIRCHIK, P.O., redaktor; SHAMSHUR,
V.I., redaktor; KRIVOSHEYEV, M.I., redaktor; SKVORTSOV, I.M., te-
khnicheskiy redaktor.

[Broadband amplifiers] Shirokopolosnye usiliteli. Izd. 2-oe, perer.
Moskva, Gos. energ. izd-vo, 1956. 110 p. (Massovaya radiobiblioteka
no. 240) (Amplifiers, Electron-tube) (MLRA 9:5)

KURARKIN, Leontiy Vladimirovich; LEVITIN, Yefim Alekseyevich; KULIKOVSKIY,
A.A., redaktor; VORONIN, K.P., tekhnicheskii redaktor

[Radio engineering made interesting] Zanimatel'naya radiotekhnika.
Moskva, Gos. energ. izd-vo, 1956. 263 p. (Massovaya radiobiblioteka,
no.249) (Radio) (MLRA 9:11)

KULIKOVSKIY, Aleksandr Aleksandrovich; BOLOSHIN, Igor' Aleksandrovich;
POTRYASAY, Vladimir Filippovich; AKALUNIN, S.A., redaktor; CHERNOV,
V.S., tekhnicheskiiy redaktor

[Principles in teaching radio receiver design] Osnovy uchebnogo
proektirovaniia radiopriemnikov. Pod obshchei red. A.A.Kulikovskogo.
Moskva, Gos. energ. izd-vo, 1956. 327 p. (MIRA 10:1)
(Radio—Receivers and reception)

KULIKOVSKIY, M.M.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1312
 AUTHOR KULIKOVSKIY, A.A.
 TITLE The Transitron Generator as a Device with Back-Coupling.
 PERIODICAL Radiotekhnika, 11, fasc. 8, 71-73 (1956)
 Issued: 9 / 1956 reviewed: 10 / 1956

The basic characteristic of the penthode in connection with transitron operation is a curve which represents the dependence of the current of the second grid on the voltage of the third grid. In the case of a reduced anode voltage this characteristic has a declining branch which is utilized in the transitron schemes.

In the case of such an operation, the points: third grid - cathode are counted as tube "input" which has the control voltage. As "output", where the control current flows, the points are: second grid - cathode. An equivalent scheme of the tube for transitron operation may take the form of an active four-pole with a current generator. The results obtained will differ from those obtained with an ordinary tube used in the same way mainly by the negative rise and, to a small extent, by other values of interelectrode conductivities. The transitron scheme with a common third grid and also with a common second grid must have a negative initial conductivity. This makes it possible to construct autogenerators which utilize negative conductivities.

The most wide-spread are transitron generators with a common cathode and an artificially fitted exterior back-coupling by which the tube receives a negative

KULIKOVSKIY, A.A.

Category : USSR / Radio Physics. General Problems.

I-1

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 7225

Author : Kulikovskiy, A.A.

Title : Use of Harmonics for the Calculation of the Envelopes of Curves.
(Author's own abstract).

Orig Pub : Radiotekhnika, 1956, 11, No 9, 72-74

Abstract : The author considers the response of a four-terminal network, consisting of a tank circuit in the anode circuit followed by linear stages (the tuned circuit in the anode circuit of a nonlinear tuned amplifier) to a high frequency pulse, in which the waveform of the "filling" oscillations is very far from sinusoidal owing to the nonlinear mode of operation of the preceding tube.

A relation is obtained between the time variation of the voltage at the output of the four-terminal network and the slowly varying envelope of the first harmonic of the Fourier expansion of the current in the plate circuit in the interval $(x, x+T_0)$, where T_0 is the period of the resonant frequency of the four-terminal network.

Card : 1/1

- 2 -

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927430002-4

redaktor; KULIKOVSKIY, A.A., redaktor; DZHIGIT, I.S.,
redaktor; SMIRNOV, A.D., redaktor;
TARASOV, F.I., redaktor. TRAMM, B.F., redaktor; CHECHIK, M.O.,
redaktor; SHAMSHUR, V.I., redaktor; TARASOV, F.I., redaktor;
VORONIN, K.P., tekhnicheskii redaktor.

[Pocket transceivers] Karmannye radiostantsii. Moskva, Gos.energ.
izd-vo, 1957. 31 p. (Massovaya radiobiblioteka, no.267)

(Radio--Apparatus and supplies)

(MLRA 10:6)

TARASOV, P.I.; BERG, A.I.,redaktor; DZHIGIT, I.S.,redaktor; KULIKOVSKIY,
A.A.,redaktor; SMIRNOV, A.D.,redaktor; TARASOV, P.I.,redaktor;
TRAMM, B.P.,redaktor; CHIRCHIK, P.O.,redaktor; SHAMSHUR, V.I.,
redaktor; YENYUMIN, V.V.,redaktor; MEDVEDEV, L.Ya.,
tekhnicheskii redaktor

[Diagrams of low-frequency amplifiers for amateurs] Skhemy
radiolubitel'skikh usilitelei nizkoi chastoty. Moskva, Gos.
energ. izd-vo, 1957. 61 p. (Massovaya radiobiblioteka, no. 264)
(MLRA 10:4)

(Amplifiers, Electron-tube)

KAZARYAN, Rafael' Avetisovich; KUVSHINOV, Boris Ivanovich; NAZAROV, Mikhail Vasil'yevich, BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F., redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; KHARKEVICH, A.A., redaktor; MEDVEDEV, L. Ya., tekhnicheskii redaktor

[Elements of the general theory of communications] Elementy obshchei teorii svyazi. Moskva, Gos. energ. izd-vo, 1957.
94 p. (Massovaya radiobiblioteka, no.263) (MIRA 10:4)
(Telecommunication)

LEVANDOVSKIY, Boris Andreyevich; BERG, A.I., red.; DZHIGIT, I.S., red.;
KULIKOVSKIY, A.A., red.; SMIRNOV, A.D., red.; TARASOV, F.I., red.;
TRAMM, B.F., red.; CHECHIK, P.O., red.; SHAMSHUR, V.I., red.;
SOBOLEVSKIY, A.G., red.; CHERNOV, V.S., tekhn.red.

[Portable ultrashort wave radio station] Perenosnaya UKV radio-
stantsiya. Moskva, Gos.energ.izd-vo, 1957. 31 p. (Massovaya
radiobiblioteka, no.278) (MIRA 10:11)
(Radio--Receivers and reception) (Radio--Transmitters and transmission)

YAKOVLEV, Valeriy Vladimirovich; BERG, A.I., redaktor; DZHIGIT, I.S.,
redaktor; ~~ZUBOVSEIL, A.A.~~, redaktor; SMIRNOV, A.D., redaktor;
TARASOV, P.I., redaktor; CHECHIK, P.O., redaktor, SHAMSHUR, V.I.,
redaktor; PLENKIN, Yu.N., redaktor; MEDVEDEV, L.M., tekhnicheskii
redaktor.

[Amateurs' receiving sets using transistors] Liubitel'skie priemniki
na poluprovodnikovyykh triodakh. Moskva, Gos.energ.izd-vo, 1957. 39 p.
(Massovaya radiobiblioteka, no.275) (MIRA 10:11)
(Radio--Receiver and reception) (Transistors)

GRUDINSKAYA, Galina Petrovna; HERG, A.I., red.; DZHIGIT, I.S., red.;
KULIKOVSKIY, A.A., red.; SMIRNOV, A.D., red.; TARASOV, F.I., red.;
CHECHIK, P.O., red.; SHAMSHUR, V.I., red.; LARIONOV, G.Ye., tekhn. red.

[Ultra-short radio wave propagation] Rasprostraneniye ul'trakorotkikh
radiovoln. Moskva, Gos.energ.izd-vo, 1957. 62 p. (Massovaya radio-
biblioteka, no.281) (MIRA 10:12)

(Radio, Shortwave)

BROYDE, Abram Markovich, ; TARASOV, F.I., redaktor; BERG, A.I., redaktor;
DZHIGIT, I.S., redaktor. KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D.,
redaktor,; TRAMM, V.F., redaktor, ; CHECHIK, P.O., redaktor; SHAMSHUR,
V.I., redaktor; FRIDKIN, A.M., tekhnicheskiiy redaktor.

[Handbook on electron tube and semiconductor apparatus] Spravochnik po
elektrovakuumnym i poluprovodnikovym priboram. Moskva, Gos.energ.izd-
vo, 1957. 175 p. (Massovaya radiobiblioteka, no.269) (MLRA 10:5)
(electronic apparatus and appliances)

ANDREYEV, Igor' Vasil'yevich, BERG, A.I., red.; BURLYAN, V.A., red.;
VANEYEV, V.I., red.; GENISHTA, Ye.N., red.; DZHIKIF, I.S., red.;
KANAYEVA, A.M., red.; KREZKEL', E.T., red.; KULIKOVSKIY, A.A., red.;
SMIRNOV, A.D., red.; TABASOV, F.I., red.; CHECHIK, P.O., red.; SHAMESHUR,
V.I., red.; GANZBURG, M.D., red.; MEDVEDEV, L.N., tekhn., red..

[Cabinet designs for radio receivers] Vneshe. oformlenie priemnika.
Moskva, Gos. energ. izd-vo, 1958. 46 p. (MIRA 11:8)
(Radio--Receivers and reception)

KULIKOVSKIY A.A.
KUGUSHEV, Aleksandr Mikhaylovich.; BERG, A.I., red.; BURDEYNYY, F.I., red.;
BURLYAND, V.A., red.; VANEYEV, V.I., red.; GENISHTA, Ye.N., red.;
DZHIGIT, I.S., red.; KANAYEVA, A.M., red.; KRENKEL', E.T., red.;
KULIKOVSKIY, A.A., red.; SMIRNOV, A.D., red.; TARASOV, F.I., red.;
CHECHIK, P.O., red.; SHAMSHUR, V.I., red.; BORUNOV, N.I., tekhn. red.

[Modern radio electronics] Sovremennaya radioelektronika. Moskva,
Gos. energ. izd-vo, 1958. 62 p. (Massovaya radiobiblioteka, no. 300).
(MIRA 11:11)

(Electronics)

MEERSON, Anatoliy Meyerovich, BERG, A.I., red.; BURGLYAND, V.A., red.;
VANEYEV, V.I., red.; GENISHTA, Ye.N., red.; DZHIGIT, I.S., red.;
KANAYEVA, A.M., red.; KREEKEL', E.T., red.; KULIKOVSKIY, A.A., red.;
SM IRNOV, A.D., red.; TARASOV, F.I., red.; CHECHIK, P.O., red. [deceased]
SHAMSHUR, V.I., red.; BORUNOV, N.I., tekhn. red.

[Testing radio tubes] Ispytanie radiolamp. Moskva, Gos. energ.
izd-vo, 1958. 61 p. (Massovaya radiobiblioteka, no. 303) (MIRA 11:9)
(Electron tubes--Testing)

SOBOLEVSKIY, Anatoliy Georgiyevich.; BERG, A.I., red.; BURLYAND, V.A., red.;
VANEYEV, V.I., red.; GENISHTA, Ye.N., red.; DZHIGIT, I.S., red.;
KANAYEVA, A.M., red.; KRENKEL', E.T., red.; KULIKOVSKIY, A.A., red.;
SMIRNOV, A.D., red.; TARASOV, F.I., red.; SHAMSHUR, V.I., red.;
KRIBITSKIY, B.Kh., red.; LARIONOV, G.Ye., tekhn. red.

[Pulse techniques] Impul'snaya tekhnika, Moskva, Gos. energ. izd-vo,
1958. 167. (Massovaya radiobiblioteka, no. 308). (MIRA 11:11)
(Pulse techniques(Electronics))

PHASE I BOOK EXPLOITATION 804

Kulikovskiy, Aleksandr Aleksandrovich

Lineynyye kaskady radiopriyemikov (Linear Stages of Radio Receivers)
Moscow, Gosenergoizdat, 1958. 350 p. 10,000 copies printed.

Ed.: Akalunin, S.A.; Tech. Ed.: Fridkin, A.M.

PURPOSE: This book is intended for students of vtuzes and
tekhnikums and may be useful to specialists working in the field
of radio reception.

COVERAGE: The book presents general information on radio receivers,
basic types of block diagrams, resonance circuits, antenna feeder
systems, input units, RF amplifiers, set noises and real sensitivity
of radio receivers, transistor amplifiers, IF amplifiers, signal
distortion and transients in the RF section of a receiver. The
description of special properties of microwave receivers is closely

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Linear Stages of Radio Receivers 804

connected with similar problems of longwave reception. The author states that the existing literature has not treated these questions in sufficient detail while in many cases the methods of technical calculation have not been developed. Serious difficulties exist due to the fact that many related problems in this field have been treated by means of different presentations and methods. This book offers a systematic description of the theory and calculation of RF linear components of radio receivers. Apart from questions not previously covered in similar works on the subject, the book contains some original material. The author thanks Professors N.M.Izyumov and N.I. Chistyakov for their help in preparing the book. There are 42 references of which 25 are Soviet and 17 English.

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KULIKOVSKIY, A.A., red.; YENYUTIN, V.V., red.; TARASOV, F.I., red.;
PRIDEKIN, A.M., tekhn.red.

[Handbook for radio amateurs] Spravochnik radioliubitelia.
Izd. 2-oe. Moskva, Gos. energ. izd-vo, 1958. 480 p. (Massovaya
radiobiblioteka, no.286) (MIRA 11:5)
(Radio--Amateurs' manuals)

FILLIPOV, A.G.

9(1) 21(6) 14

PHASE I BOOK EXPLOITATION 807/1765

Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo radioelektroniki i elektroniki

Poluprovodnikovaya elektronika (Semiconductor Electronics) Moscow, Sostavizdat, 1959. 222 p. 13,950 copies printed.

Ed.: V.I. Shashur, Tech. Ed.: K.P. Voronin.

PURPOSE: The book is intended for engineering and technical personnel working with semiconductor devices.

CONTENTS: The book is a collection of lectures delivered at the All-Union Seminar on Semiconductor Electronics in March 1957. The seminar was organized by the Scientific and Technical Society of Radio Engineering and Electrical Communications imeni A.S. Popov. The authors of the lectures have attempted to systematize the basic information on the operation and characteristics of semiconductor devices. The articles describe the operation and characteristics of semiconductor diodes, transistors and discuss their application in various low-frequency, high-frequency and pulse circuits. No personalities are mentioned. References appear at the end of each article.

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A.A. Eshkovskiy. High-Frequency Transistor Amplifiers 151

The author discusses equivalent circuits of high-frequency transistor amplifiers and describes methods of calculating their parameters. He describes the operation of interstage resonant circuits and examines the effect of feedback in transistor circuits. He also discusses transistor stability, stabilizing networks for the internal feedback in transistor circuits, and the noise factor. There are 15 references of which 3 are Soviet, 1 German and 1 English.

T.M. Akhanyan. Transient and Frequency-Phase Characteristics of a Junction-Type Triode Transistor 173

The author discusses transient, frequency and phase characteristics of junction-type triode transistors. He also derives expressions for transfer functions for various types of transistor connections and describes the equivalent circuit for high

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frequencies for a junction-type triode transistor. There are 8 references of which 2 are Soviet (including 1 translation), and 6 English.

T.M. Akhanyan. Triode Transistor Video Amplifiers 187

The author discusses linear and nonlinear distortions in transistor video amplifiers and describes circuits with complex resonant and current distributing networks. A brief discussion of multistage amplifiers is also presented. There are 2 references, both Soviet.

B.M. Kozlov. Trigger and Relaxation Circuits Using Junction-Type Triode Transistors 197

The author describes the operation and characteristics of symmetrical triggers and multivibrators using junction-type transistors. He also discusses their stability and derives expressions for calculating transistor circuit performance. There are 4 references of which 3 are Soviet and 1 English.

AUTHOR: Kulikovskiy, A.A.

30V/106-58-9-12/17

TITLE: The Parameters of a Detector Using a Semiconductor Diode
(Parametry detektora s poluprovodnikovym diodom)

PERIODICAL: Elektrosvyaz', 1958, Nr 9, pp 71 - 73 (USSR)

ABSTRACT: It is usual in the analysis of semiconductor diodes to assume that the voltage/current characteristic is exponential. For real diodes this is only true in the small-signal region and for large signals the 2-straight-line representation of Fig 1 is more suitable. The present note evaluates the transfer coefficient and input conductance of a detector whose reverse conduction is appreciable. The expression for the current taken by the detector involves a function of cut-off angle, B . The exact variation with operating point of the detector is that of Fig 2 and it will be seen that it also may be well represented by 2 straight lines. The transfer coefficient of the detector is K_b and immediately below this the analogous expression for a vacuum diode is given. In the analysis of input conductance a quantity A is similarly represented by 2 straight lines as in Fig 3. The exact

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SOV/106-58-9-12/17

The Parameters of a Detector using a Semiconductor Diode

expression for input conductance is G_{yx} . A good practical approximation to input resistance is the formula for R_{yx} which demonstrates that even when the load resistance is infinite the input resistance can never exceed $1/3$ the inverse resistance of the diode. It is suggested that diodes with a high inverse resistance would be chosen for narrow-band receivers, where circuit damping is to be least and that for wide-band receivers a diode with small forward resistance would be preferred so as to give as large a transfer coefficient as possible.

There are 3 figures and 2 references, both Soviet.

SUBMITTED: December 17, 1957

Card 2/2

05212

SOV/142-2-3-20/27

9(2,3)

AUTHORS: Kulikovskiy, A.A., Potryasay, V.F., Sutyagin, V.Ya., Ryzhkov, A.S.

TITLE: The Terminology in the Field of Transistor Electronics

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 3, p 378 (USSR)

ABSTRACT: The authors refer to the article by T.M. Agakhanyan, B.N. Kononov and I.P. Stepanenko, titled "The Terminology in the Field of Transistor Electronics", published in Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1958, Vol 1, Nr 4. The authors agree in principle with the suggestions made in the aforementioned article and present some of their own ideas as an addition. For example the Russian terms "baza" (base) and "tranzistor" (transistor) should be sanctioned, although there might be some conflict with the term "poluprovodnikovyy diod" (semiconductor diode) which also belongs to the transistor class. The authors regard the terms "dyrochnyy tranzistor" ('hole' transistor) and "elektronnyy tranzistor" ('electron' transistor) as superfluous and recommend the designation p-n-p or n-p-n transistor. Similar suggestions were made for the classification of diode types.

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05212

SOV/142-2-3-20/27

The Terminology in the Field of Transistor Electronics

ASSOCIATION: Voenno-vozdushnaya inzhenernaya Akademiya imeni professora N.Ye. Zhukovskogo (Air Force Engineering Academy imeni Professor N.Ye. Zhukovskiy)

SUBMITTED: February 2, 1959

Card 2/2

AUTHOR: Kulikovskiy, A.A.

SOV/109- --4-3-26/38

TITLE: Analysis of the Transient Phenomena in a Diode Detector, Taking into Account the Influence of the Detector Input on the Preceding Circuit (Analiz perekhodnykh protsessov v diodnom detektore s uchetom vliyaniya vkhoda detektora na predshestvuyushchiy kontur)

PERIODICAL: Radiotekhnika i Elektronika, Vol 4, Nr 3, 1959, pp 530-533 (USSR)

ABSTRACT: It is assumed that the detector is connected to an amplifier which is terminated with a single-tuned resonant circuit and that the load of the detector consists of a simple RC circuit. The amplitude of the voltage at the tuned circuit is expressed by (Ref 7):

$$U_m(t) = \frac{\omega_0}{2} \int_0^t R(t-x) I_{m1}(x) dx, \quad (1)$$

where $I_{m1}(x)$ is the envelope of the first harmonic of the anode current passing through the circuit, while $R(t)$ is the amplitude of the equivalent impedance of the circuit. The amplitude is expressed by Eq (5) where B

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S OV/109 - - 4-3-26/38

Analysis of the Transient Phenomena in a Diode Detector, Taking into Account the Influence of the Detector Input on the Preceding Circuit

is defined by Eq (2); $\rho = R_{kd}$ is the characteristic quantity of the circuit. The amplitude of the envelope is given by Eq (6) where S is the slope of the diode, U_o is the voltage at the output of the detector, mU_m is the input voltage of the detector and S_n is the slope of the amplifying tube. The voltage across the tuned circuit can therefore be written in the form of Eq (7). In the differential operatorial form, this can be written as Eq (8) from which the voltage at the output of the detector is expressed by Eq (10). The solution of Eq (10) is in the form of Eq (12). There are 9 Soviet references.

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SUBMITTED: First submitted June 8, 1957; finally submitted, after revision, September 11, 1958

POPOV, Petr Aleksandrovich; BERG, A.I., red.; BURDENEV, P.I., red.;
BURLYAND, V.A., red.; VANEYEV, V.I., red.; GENISHTA, Ye.N.,
red.; DZHIGIT, I.S., red.; KANAYEVA, A.M., red.; KREMKEL',
E.T., red.; KULIKOVSKIY, A.A., red.; SHIRNOV, A.D., red.;
TARASOV, P.I., red.; SHAMSHUR, V.I., red.; KULIKOVSKIY, A.A.,
red.; LARIONOV, G.Ye., tekhn. red.

[Design of audio frequency transistor amplifiers] Raschet
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energ. izd-vo, 1960. 103 p. (Massovaya radiobiblioteka, no.378)
(MIRA 14:5)

(Transistor amplifiers)

FEDOTOV, Ya.A., otv.red.; GAL'PERIN, Ye.I., zamestitel' otv.red.; BARKANOV,
N.A., red.; BERGEL'SON, I.G., red.; BROIDE, A.M., red.; KANGNETSKIY,
Yu.A., red.; KAUSOV, S.F., red.; KRASILOV, A.V., red.; KULIKOVSKIY,
A.A., red.; NIKOLAYEVSKIY, I.F., red.; PENIN, N.A., red.; STEPAN-
NENKO, I.P., red.; VOLKOVA, I.M., red.; SVESHNIKOV, A.A., tekhn.red.

[Transistor devices and their applications; collection of articles]
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(Transistors) (Electronic circuits)

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BROYDE, A.M., red.; GAL'PERIN, Ye.I., zam.otv.red.; KAMENETSKIY,
Yu.A., red.; KONEV, Yu.I., red.; KRASILOV, A.V., red.; KULIKOVSKIY,
A.A., red.; NIKOLAYEVSKIY, I.F., red.; STEPANENKO, I.P., red.;
VOLKOVA, I.M., red.; SVESHNIKOV, A.A., tekhn.red.

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radio." No.5. 1960. 270 p. (MIRA 13:10)
(Transistors)

FEDOTOV, Ya.A., otv.red.; BARKANOV, N.A., red.; BERGEL'SON, I.G., red.;
BROYDE, A.M., red.; GAL'PERIN, Ye.I., red.; KAMENETSKIY, Yu.A.,
red.; KAUSOV, S.F., red.; KONEV, Yu.I., red.; KRASILOV, A.V.,
red.; KULIKOVSKIY, A.A., red.; NIKOLAYEVSKIY, I.P., red.;
STEPANENKO, I.P., red.; VOLKOVA, I.M., red.; SMUROV, B.V.,
tekhn.red.

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(Semiconductors) (Transistors)

KULIKOVSKIY, A.A., red.; TARASOV, F.I., red.; BORUKOV, N.I., tekhn. red.

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(Radio)

(MIRA 14:6)

KULIKOVSKIY, Aleksandr Aleksandrovich; SHAMSHUR, V.I., red.; FRIDKIN,
L.M., tekhn. red.

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amplifying devices] Ustoichivost' aktivnykh linearizovannykh
tsepei s uslilitel'nymi priborami novykh tipov. Moskva, Gos-
energoizdat, 1962. 191 p. (MIRA 16:1)
(Electric networks) (Transistors)

FEDOTOV, Ya.A., otv. red.; BERGEL'SON, I.G., red.; GAL'PERIN, Ye.I.,
zam. otv. red.; KAMENETSKIY, Yu.A., red.; KAUSOV, S.F., red.;
KONEV, Yu.I., red.; KRASILOV, A.V., red.; KULIKOVSKIY, A.A.,
red.; NIKOLAYEVSKIY, I.F., red.; STEPANENKO, I.P., red.;
VOLKOVA, I.M., red.; BELYAYEVA, V.V., tekhn. red.

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Cand Tech Sci, Division of Physicomathematical and Technical Sci, Acad Sci Belorussian
SSR, Minsk, 1954. (RZhKhim, No 2, Jan 55)

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Educational Institutions (13)
SO: Sum. No. 598, 29 Jul 55

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GALENCHIK, I.Z.

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(Peat industry) (Fertilizers and manures)

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of the production of peat litter in White Russia. 'Trudy Inst. torf'.
AN BSSR 9:204-210 '60. (MIRA 14:2)

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A.B., inzh.; PETROVNIN, M.I., inzh.; PETROV, I.S., inzh.;
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(Air-pressure support)

BARANOV, V.B. (Moskva); KULIKOVSKIY, A.G. (Moskva); LYUBIMOV, G.A. (Moskva)

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Izv.AN SSSR. Mekh.i mashinostr. no.1:141-142 Ja-F '64.

(MIRA 17:4)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927430002-4

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927430002-4"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927430002-4

ADDITIONAL # 6

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927430002-4"

KULIKOVSKIY, A.G.

20-5-18/60

AUTHOR
TITLE

KULIKOVSKIY, A.G.,
On the Pulsation of Plasma in a Cylinder.
(K voprosu o pul'satsii plazmennogo shnura - Russian)
Doklady Akad.Nauk SSSR, 1957, Vol 114, Nr 5, pp 984-987 (U.S.S.R.)

PERIODICAL

ABSTRACT

Reference is made to two previous papers dealing with the same subject. The present paper investigates a certain class of rigorous solutions of equations of magnetic hydrodynamics, comprising particularly periodic solutions. The author investigates the onedimensional axially symmetric motions of an unlimited gas with infinite conductivity. First four equations of magnetic hydrodynamics are written down in Lagrange's coordinates. The magnetic lines of force are assumed to be closed concentric circles. An equation describes the acceleration of the particle, the others represent laws of conservation for mass, entropy, and magnetic flux. The present paper finds all solutions with homogeneous deformation, so that $r/r_0 = \mu(t)$ applies. Here μ shall not depend on the coordinate r_0 . The velocity depends linearly on the radius. The solution is then explicitly written down. With $t = 0$ a concentrated current flows along the symmetry axis. Also for the current distribution at all other points of the space a formula is given. The forms of motion of the plasma which corresponds to the various amounts of the constants and roots occurring in the solution are enumerated in short: clashing, compressing of the gas at one point (at the moment of clashing together the velocity changes with a jerk and a new expansion takes place), flying apart, limita-

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20-5-18/60

On the Pulsation of Plasma in a Cylinder.

tion motions, steady equilibrium, non-steady equilibrium, periodic oscillations.

The author then investigates a cylinder of finite length and finite radius. In order to be able to describe the phenomenon within the cylinder by means of the obtained solution, it is necessary to fit conductive walls on the front surface, and pressure must be applied to the lateral surface which is equal to the pressure acting from within. A certain voltage must be applied to the ends of the cylinder, which can, however, be easily computed. In conclusion the energy balance is calculated. The solution obtained can easily be generalized for problems with helical magnetic lines of force.

ASSOCIATION Moscow State University.
PRESENTED BY SELOV I.L., Member of the Academy
SUBMITTED 16.1.1957
AVAILABLE Library of Congress.
Card 2/2

KULIKOVSKIY, A.G.

Flow of a conducting liquid past magnetized bodies. Dokl. AN SSSR
117 no.2:199-202 N '57. (MIRA 11:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
Predstavleno akademikom L.I. Sedovym.
(Magnetohydrodynamics)

Camp
KULIKOVSKIY, A. G.: Master Phys-Math Sci (diss) -- "On some new precise solutions of the equations of magnetic hydrodynamics". Moscow, 1958. 6 pp
(Moscow State U im M. V. Lomonosov, Mechanical-Math Faculty), 150 copies
(KL, No 5, 1959, 142)

A. G. Kulikovskiy

16(1)

AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

Cherny, I.A., University Lecturer, and 207/51-52-2-33/35
Kopylov, Y.D., Scientific Assistant
Lomonosov - Lectures 1957 at the Mechanical-Mathematical
Faculty of Moscow State University (Izvestiya
Sobremennaya 1957 goda na matematiko-fizicheskom fakul'tete
MSU)
Vestnik Moskovskogo Universiteta, Seriya matematiki, mekhanika,
fizika, 1958, No. 4, pp. 241-246 (USSR)
The Lomonosov lectures 1957 took place from October 17 -
October 31, 1957 and were dedicated to the 40-th anniversary
of the October Revolution.
In the general meeting I.B. Kolmogorov, Academician spoke
on Approximate Representation of Functions of Several
Variables by Superposition of Functions with Less Variables
and C-Entropy of Classes of Functions. The lecture presented
the results of his research on the problem of approximation
of functions of several variables. The results of his research
on the problem of approximation of functions of several variables
(Sobremennaya 1957 goda na matematiko-fizicheskom fakul'tete
MSU, No. 4, pp. 241-246). Professor Kh.A. Babatulin,
Member of the Academy of Sciences of the USSR, spoke on
"Investigation of the Boundary Layer of the Motion of a two-
Component Liquid".
The other lectures were given separately in the sections
of mechanics and mathematics. The following lectures were given.
8. A.A. Pavlenko, Lecturer: Generalization of the Theory
of the Transverse Shock Against a Flexible Thread.
9. A.G. Kulikovskiy, Aspirant: Piece Around Magnetized Solids
"by connecting Liquid".
10. N.V. Izrael'skiy, Lecturer: Instruments for the Analysis
and Synthesis of Mechanisms.
11. N.S. Krasnyy, Lecturer: Some General Less in the Be-
havior of Multiply Loaded Metals.
12. V.M. Krasnyy, Aspirant: A Variant of the Theory of
the Interaction of Mechanical and Electrical Systems.
13. Professor M.I. Eshel' and Professor A.I. L'vovskiy,
Aspirant: Behavior of the Solutions of Linear Equations
With Small Parameter in the Derivatives.
14. Professor O.A. Oleynik: Some Non-Linear Partial
Differential Equations (Survey of the Results of T.D.
Ventsel', Chaboukuyev, N.D. Fedotkin, A.S. Malash-
nikov, Ye.S. Sabitov, S.M. Kasenostanov).
15. Professor K.B. Shukh-Bura and P.S. Litvinov, Senior
Scientific Assistant: Automation and Programming.

Card 3/3

10

SOV/20-120-3-12/67

AUTHOR: Kulikovskiy, A. G.

TITLE: On Media Permitting Unidimensional Motions With Homogeneous Deformation (O sredakh, dopuskayushchikh odnomernyye dvizheniya s odnorodnoy deformatsiyey)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 3, pp. 485 -- 486 (USSR)

ABSTRACT: The present paper provides an answer to the following question: What equation of state must a medium satisfy which permits unidimensional motions with homogeneous deformation? The author here investigates the following two cases: The motion satisfies either the condition of adiabaticity $\partial S / \partial t = 0$ or the condition $\partial T / \partial r = 0$. T here denotes temperature. The author in the first case puts the equation of state in the form $p = p_1(\rho, S)$, and in the second as $p = p_2(\rho, T)$. If exterior forces are lacking and if internal tensions are reduced to pressure (but also in some other cases in which gravitation is taken into account), the equation of state of the impulses leads to relation

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On Media Permitting Unidimensional Motions With
Homogeneous Deformation

SOV/20-120-3-12/67

$\frac{1}{\rho_0} \frac{\partial \rho}{\partial r_0} = k(t)r_0$; ρ_0 here denotes the initial density. The last-mentioned equation is the starting point for further investigations. After some re-formations equations of state of the following type are obtained:

$$p_1(\rho, S) = f_1\left(\frac{\rho}{\rho_0(S)}\right)p_{01}(\rho_0(S)) + \psi_1\left(\frac{\rho}{\rho_0(S)}\right)$$

$$p_2(\rho, T) = f_2(T)p_{02}\left(\frac{\rho}{\alpha(T)}\right) + \psi_2(T).$$

The author then determines such equations of state as permit unidimensional motions with homogeneous deformation in the case of any functions $\rho_0(S)$ and $\alpha(T)$. By computation the following

equations are obtained: $p_1(\rho, S) = A_1(S)\rho^{\gamma_1} + B_1$,

$p_2(\rho, T) = A_2(T)\rho^{\gamma_2} + B_2(T)$. Here A_1, γ_1 and B_1 are, in general, functions of S , whereas A_2, γ_2 , and B_2 are functions of T .

Card 2/3

On Media Permitting Unidimensional Motions With
Homogeneous Deformation

SOV/20-120-3-12/67

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova
(Moscow State University imeni M.V.Lomonosov)

PRESENTED: January 23, 1958, by L.I.Sedov, Member, Academy of Sciences,
USSR

SUBMITTED: January 7, 1958

1. Equations of state--Analysis 2. Equations of state--Appli-
cations 3. Functions--Applications

Card 3/3

AUTHOR: Kulikovskiy, A.G.

20.120-5-15/67

TITLE: On Motions With a Homogeneous Deformation in the Magnetic Hydrodynamics (O dvizheniyakh s odnorodnoy deformatsiyey v magnitnoy gidrodinamike)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 5, pp 984-986 (USSR)

ABSTRACT: The author considers the equations of the magnetic hydrodynamics if the motion in the Lagrange form has the form

$$(L) \quad x_i = M_{ij}(t)x_j^0 + M_i(t),$$

where the x_i are the orthogonal coordinates of the particle and $x_i^0 = x_i(0)$. Similar motions have already been considered in earlier papers of Sedov [Ref 1], the author [Ref 2] and Zagar [Ref 3]. In this case it is

$$(1) \quad \mathcal{L} = \frac{1}{\Delta} \mathcal{L}^0, \quad p = \frac{1}{\Delta} p^0, \quad H_i = \frac{1}{\Delta} M_{ij} H_j^0,$$

where Δ is the determinant of the matrix $\|M_{ij}\|$. Substituting (1) in the motion equations $\frac{\partial^2 x}{\partial t^2} = -\frac{1}{\rho} \frac{\partial p}{\partial x_i} + \frac{1}{\rho} \frac{\partial T_{ij}}{\partial x_j}$,

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On Motions With a Homogeneous Deformation in the Magnetic Hydrodynamics

20-120-5-15/67

$T_{ij} = \frac{1}{4\pi} H_i H_j - \frac{1}{8\pi} H_k H_k$, the author obtains an equation

$$(2) \quad \frac{d^2 M_i}{dt^2} + x_j^0 \frac{d^2 M_{ij}}{dt^2} = R.$$

It is assumed that the right side of (2) remains linear for arbitrary affine deformations of the medium. Then $\frac{1}{g^0} \frac{\partial p^0}{\partial x_i^0}$ and

$\frac{1}{g^0} \frac{\partial H_m^0 H_n^0}{\partial x_i^0}$ are linear functions of x_j^0 , i.e. it is

$$\frac{1}{g^0} \frac{\partial p^0}{\partial x_i^0} = p_{ij} x_j^0 + p_i^0, \quad \frac{1}{g^0} \frac{\partial H_m^0 H_n^0}{\partial x_i^0} = a_{mn}^1 x_j^0 + a_{mnl}^1, \text{ where } p$$

and a are constants. Let the matrix $\|p_{ij}\|$ have the rank 3. Then p^0 is an arbitrary function of $\phi = p_{ij} x_i^0 x_j^0 + p_i x_i^0 + \text{const}$ and $g^0 = \kappa p^{0'}(\phi)$, $\kappa = \text{const}$ and the accent means derivation with respect to ϕ . If $g^0 \neq \text{const}$, then $H_i^0 H_k^0 = \alpha_{ik} p^0 + \beta_{ik}$ - the

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On Motions With a Homogeneous Deformation in the Magnetic
Hydrodynamics

20-120-5-15/67

magnetic lines of force are straight lines. If $g^0 = \text{const}$, then $p_0 = \phi$, $H_i^0 H_k^0 = \phi_{ik}$, where ϕ and ϕ_{ik} are polynomials of second degree in x_j^0 and $\phi_{ik}^2 = \phi_{ii} \phi_{kk}$. Only if all ϕ_{ii} are squares of linear factors, then the magnetic lines of force are not even and are the integral curves of $\frac{dx_i^0}{dt} = h_{ik} x_k^0 + h_i$. Excluding the case of straight lines of force, then the gas moves according to the equation (L) if $g^0 = \text{const}$, $p^0 = p_{ij} x_i^0 x_j^0 + p_i x_i^0 + \text{const}$,

$$H_i^0 = h_{ik} x_k^0 + h_i.$$

There are 3 references, 2 of which are Soviet and 1 Italian.

PRESENTED: January 23, 1958, by L.I.Sedov, Academician

SUBMITTED: December 27, 1957

1. Gases--Motion 2. Gas flow--Magnetic factors 3. Mathematics

Card 3/3

10(4), 24(3)

SOV/20-121-6-9/45

AUTHOR: Kulikovskiy, A. G.

TITLE: On Riemann's Waves in Magnetical Hydrodynamics (O volnakh Rimana v magnitnoy gidrodinamike)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 6, pp 987-990 (USSR)

ABSTRACT: This paper investigates the above-mentioned waves for any position of the magnetic field with respect to the wave front. This causes new mechanical effects. The author first gives the equations for the isentropic motion (as plane waves) of an ideal gas of infinite conductivity in the presence of a magnetic field. The author then investigates the solutions which depend on a certain combination of the independent variables $\varphi(x, t)$. The above-mentioned initial equations are adapted to this special case. The solution of this system is then discussed. The only possible solution is given explicitly. Next, other types of waves are investigated. In the automodel solutions, rotatory discontinuities correspond to the wave which propagates with the velocity $a_1 = H_x / \sqrt{4\pi Q}$.

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On Riemann's Waves in Magnetical Hydrodynamics

SOV/20-121-6-2/45

The solutions discussed in this paper may be used also for the purpose of solving the problem of the disintegration of any discontinuity in magnetic hydrodynamics and also for the solution of the piston problem. In these problems continuous solutions and also shock waves are possible. In those variables in which the problem of the Riemann (Riman) waves was solved, the variation of the quantities on the shock wave may be found in an explicit form. There are 2 figures and 2 references, the latter of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: April 18, 1958, by L. I. Sedov, Academician

SUBMITTED: April 17, 1958

Card 2/2

PLASMA DYNAMICS

See also 30 magnetohydrodynamics. Also, 1958.

Voprosy magnetnoy gidrodinamiki i plazmennykh teorii konfrontatsii. (Problems in Magnetohydrodynamics and Plasma Dynamics; Transactions of a Conference) Riga, Latvian SSR, 1979. 345 p.

Printed in USSR. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Latvyskoy SSR. Institute field.

Editorial Board: D.A. Frank-Kamenetskii, Doctor of Physics and Mathematics, Professor; A.I. Vol'dak, Doctor of Technical Sciences, Professor; I.M. Kuznetsov, Doctor of Physics and Mathematics; V.Ya. Yul'ev, Candidate of Engineering Sciences; V.O. Vitok, Candidate of Physics and Mathematics; T.M. Kuznetsov; and V.D. Kuznetsov.

Ed.: A. Kuznetsov; Tech. Ed.: A. Kuznetsov

SYNOPSIS: This book is intended for physicists working in the field of magnetohydrodynamics and plasma dynamics. It contains the proceedings of a conference held in Riga, Latvia, in 1979, on problems in applied and theoretical magnetohydrodynamics. The subjects of the conference were the investigation of the basic trends in theoretical and applied magnetohydrodynamics, establishing contact between the people doing research in different branches of magnetohydrodynamics, and promoting the participation of theoretical physicists in problems of applied magnetohydrodynamics. More than 160 persons from different countries took part in the conference, and 55 papers were presented. The conference was held regularly in the future; the next one is scheduled to be held in Riga in June 1980. The book is divided into two parts: the first part deals with problems in theoretical magnetohydrodynamics and plasma dynamics, and the second part deals with problems in applied magnetohydrodynamics. The first part consists of 35 articles on such aspects of the problem as the application of magnetohydrodynamics in astrophysics (D.A. Frank-Kamenetskii), magnetohydrodynamics and the investigation of cosmic-ray variations (L.I. Dornik), acceleration of plasma in a magnetic field (G.Y. Gurevich and A.I. Gurevich), stability of shock waves and magnetohydrodynamics (A.I. Gurevich), and the application of magnetohydrodynamics in the metallurgical industry (I.M. Kuznetsov). The second part, consisting of 35 articles, deals with problems in applied magnetohydrodynamics, including the application of magnetohydrodynamics in the development of electromagnetic processes in industrial plants (I.M. Kuznetsov) and the development of electromagnetic power (G.O. Vitok), as the basis of physics of the Academy of Sciences, Latvian SSR. Several articles are devoted to induction power, electromagnetic crucibles, electromagnetic stirrers for molten metals, and the application in the metallurgical industry including schematic diagrams of their power-supply systems. References are given at the end of most of the articles.

Bagdasaryan, R.Z. Magnetohydrodynamic Wave Attenuation in Plasma	147
Alshuler, A.I., G.Ya. Lyubchik, and R.Y. Polovin. Simple Waves in Magnetohydrodynamics	151
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Korobynikov, V.M. Forceful Self-Dissipating Motions of Gas in a Magnetic Field	173
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Cont 7/12

24 (3)

AUTHORS:

~~Kulikovskiy, A. G.~~, Lyubimov, G. A. SOV/179-59-4-16/40
(Moscow)

TITLE:

On the Possible Kinds of Crack With a Conductivity Jump

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye tekhnicheskikh nauk.
Mekhanika i mashinostroyeniye, 1959, Nr 4, pp 130-131 (USSR)

ABSTRACT:

If in a flow of gas there is a surface with a jump-like change of its parameters, the mass-, momentum- and energy-conservation laws must be observed in the passing through this surface. Under certain assumptions made here, these laws are indicated in the form of formulas (1) (Ref 1). At given parameters of the approaching flow as well as of the electromagnetic field in front of the discontinuity surface, the formulas (1) determine the flow- and field parameters behind the discontinuity. It is shown that the presence of a single steady surface at given parameters of the approaching flow does not yet make it possible to solve only an unsteady problem with cracks of similar kind (e. g. the problem of the motion of a flat piston). The structure of the discontinuity surface with a conductivity jump is investigated. The procedure is similar to that described in the papers (Refs 2,3). The curve ABC shown in the figure is

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